

	Substitute fo	r form 144	9A/PTO	Complete if Known			
	ST	ATEMEI	TION DISCLOSURE NT BY APPLICANT ny sheets as necessary)	Application Number	Divisional of 09/141,220		
			•	Filing Date	January 6, 2000		
				First Named Inventor	Gary A. Bannon		
				Group Art Unit	1644		
				Examiner Name			
Sheet	heet 1 of 6		6	Attorney Docket Number	HS 102 DIV		

U.S. PATENT DOCUMENTS								
Examiner Initials*	Cite No.¹	US Patent Docume	Name of Patentee or Applicant of Cited Document	Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear			
		Number Kind Co (if kno		<u> </u>				
PH		5,496,554	Oka, et al.	03-05-1996				
PNH		5,314,991	Oka, et al.	05-24-1994				
	-	, -						
			0					
			· ·					
				1				

				F	OREIGN PATENT DOCUMENT	S			
Examiner Initials*	Cite No.¹		Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office.3	Number⁴	Kind Code ⁵ (if known)					
								-	
				<u> </u>				-	
	_								
								-	
		<u> </u>						<u> </u>	

Examine Signature	De d. Ha	Date Considered	6/12/01	
	7 9 77-1			

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

¹ Unique citation designation number ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant to place a check mark here if English language Translation is attached.

onus merap	Inder the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information Substitute for form 1449A/PTO		Complete if Known		
	STATI	EMENT	ON DISCLOSURE BY APPLICANT sheets as necessary)	Application Number	Divisional of 09/141,220
	•	•	•	Filing Date	January 6, 2000
				First Named Inventor	Gary A. Bannon
				Group Art Unit	1644
'				Examiner Name	·
Sheet	2	Of	6	Attorney Docket Number	HS 102 DIV

		OTHER ART NON PATENT LITERATURE DOCUMENTS	_
Examiner's Initials*	Cite No.¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T
Put	-	AAS, et al., "Physico-chemical properties and specific activity of a purified allergen (codfish)," Dev. Biol. Stand. 29: 90-98 (1975).	
		BALL, et al., "A major continuous allergenic epitope of bovine beta-lactoglobulin recognized by human IgE binding," Clin. Exp. Allergy 24: 758-764 (1994).	
		BEVIER, "Flea Allergy Dermatitis Testing Breakthrough," Canine Practice 22(2-3): 49-50 (1997).	
		BOCK, "Natural history of severe reactions to foods in young children," J. Pediatr. 107: 676-680 (1985).	
		BOULET, et al. "Inhibitory effects of an anti-IgE antibody E25 on allergen-induced early asthmatic response," Am J Respir Crit Care Med 155:1835-1840 (1997).	
		BSAC Working Party, "Position paper on allergen immunotherapy," Clin Exp Allergy 23:1-44 (1993).	
	•	BURKS, et al. "Mapping and mutational analysis of the IgE-binding epitopes on Ara h 1, a legume vicilin protein and a major allergen in peanut hypersensitivity," <i>Eur. J. Biochem.</i> 245: 334-339 (1997).	
		BURKS, et al. "Recombinant peanut allergen Ara h I expression and IgE binding in patients with peanut hypersensitivity," J. Clinical Invest. 96: 1715-1721 (1995).	
		BURKS, et al., "Epitope specificity of the major peanut allergen, Ara h II," J Allergy Clin Immunol. 95(2):607-11. (1995).	
$\overline{}$		BURKS, et al., "Isolation, identification, and characterization of clones encoding antigens responsible for peanut hypersensitivity," Int Arch Allergy Immunol. 107(1-3): 248-50 (1995).	

Examiner's Signature	Dhy N. X	Date Considered	6/12/	61

^{*}EXAMINER: Initial if reference considered, whether er not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO	Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)	Application Number	Divisional of 09/141,220	
•	Filing Date	January 6, 2000	
	First Named Inventor	Gary A. Bannon	
	Group Art Unit	1644	
	Examiner Name		
et 3 of 6	Attorney Docket Number	HS 102 DIV	

	- C:	OTHER ART NON PATENT LITERATURE DOCUMENTS	Ť
Examiner's Cite No.1		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Ľ
PNH	-	BURKS, "Allergenicity of peanut and soybean extracts altered by chemical or thermal denaturation in patients with atopic dermatitis and positive food challenges," <i>J Allergy Clin Immunol</i> 90(6 pt 1): 889-97 (1992).	
		BURKS, et al. "Atopic dermatitis: clinical relevance of food hypersensitivity reactions," J. Pediatr. 113: 447-451 (1988).	
		BURKS, et al., "Allergens, IgE, mediators, inflammatory mechanisms. Epitope specificity and immunoaffinity purification of the major peanut allergen, Ara h I," <i>J Allergy Clin Immunol</i> . 93(4): 743-50 (1994).	
		BURKS, et al., "Identification and characterization of a second major peanut allergen, Ara h II, with use of the sera of patients with atopic dermatitis and positive peanut challenge," <i>J Allergy Clin Immunol.</i> 90(6 Pt 1): 962-9 (1992).	
		BURKS, et al., "Identification of a major peanut allergen Ara h I, in patients with atopic dermatitis and positive peanut challenge," J. Allergy Clin. Immunol. 88:172-179 (1991).	
		BURKS, et al., "Identification of peanut agglutinin and soybean trypsin inhibitor as minor legume allergens," Int Arch Allergy Immunol. 105(2):143-9 (1994).	
		COLMAN, "Production of proteins in the milk of transgenic livestock: problems, solutions, and successes," Am. J. Clin. Nutr. 63(4): 639S-6455S (1996).	
		COLMAN, "Production of therapeutic proteins in the milk of transgenic livestock," <i>Biochem. Soc. Symp.</i> 63: 141-147 (1998).	
		DAY, "Genetic Modification of Proteins in Food," Critical Reviews in Food Science and Nutrition 36(S):S49-S67 (1996).	
\forall		DEJONG, et al., "Food allergen (peanut)-specific TH2 clones generated from the peripheral blood of a patient with peanut allergy," <i>J Allergy Clin Immunol.</i> 98(1): 73-81 (1996).	

Examiner's			Date	1/15/2		
Signature	pay N.	Any		Considered	6/12/01	
· · · · · · · · · · · · · · · · · · ·	 7 7					

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this follow with next communication to applicant.

¹ Unique citation designation number ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant to place a check mark here if English language Translation is attached.

	Substitute for form 1449A/PTO			Complete if Known			
	STAT	EMENT	ON DISCLOSURE BY APPLICANT	Application Number	Divisional of 09/141,220		
		·		Filing Date	January 6, 2000		
				First Named Inventor	Gary A. Bannon		
				Group Art Unit	1644		
				Examiner Name			
Sheet	4	of	6	Attorney Docket Number	HS 102 DIV		

 .	0::	List de come of the control of CARITAL LETTERCY title of the estima (when engranges) title of the	Т
Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	
PuH		ELSAYED, et al., "Synthetic allergenic epitopes from the amino-terminal regions of the major allergens of hazel and birch pollen," Int. Arch. Allergy Appl. Immunol. 89: 410-415 (1989).	
		ESPANION, "Methods of production and perspectives for use of transgenic domestic animals," DTW Dtsch Tierarztl Wochenschr. 103(8-9):320-8 (1996).	
		FAHY, et al. "The effect of an anti-lgE monoclonal antibody on the early- and late-phase responses to allergen inhalation in asthmatic subjects," <i>American J Respir Crit Care Med</i> 155: 1828-1834 (1997).	
		FIELDS, et al., "Solid phase peptide synthesis utilizing 9-fluorenylmethoxycarbonyl amino acids," Int J Pept Protein Res. 35(3):161-214 (1990).	
		FOSTER, "Allergy Testing for Skin disease in the Cat In Vivo vs In Vitro tests," Veterinary Immunology 4(3): 111-115 (1993).	
·		GREENE, "Characterization of allergens of the cat flea, Ctenocephalides felis: detection and frrequency of IgE antibodies in canine sera," Parasit Immunology 15: 69-74 (1993).	
		HALLIWELL, "Aspects of the Immunopathogenisis of Flea Allergy Dermatitis in Dogs," Veterinary Immunology and Immunopathology 17: 483-494 (1987).	•
		HALLIWELL, "IgE and IgG Antibodies to flea Antigen in Differing Dog Populations," Veterinary Immunology and immunopathology 8: 215-223 (1985).	
		HERIAN, et al. "Identification of soybean allergens by immunoblotting with sera from soy-allergic adults," <i>Int. Arch. Allergy</i> Appl. Immunol. 92: 193-198 (1990).	
		HSU et al. "Inhibition of specific IgE response in vivo by allergen-gene transfer," Int Immunol 8:1405-1411 (1996).	

Examiner's		1		Date	1/00	-/21
Signature	j≥	ST N.	A CONTRACTOR OF THE PARTY OF TH	Considered	0/12	701
			/			

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant to place a check mark here if English language Translation is attached.

5

of

Sheet

HS 102 DIV

Substitute for form 1449A/PTO		Complete if Known
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)	Application Number	Divisional of 09/141,220
(ase as many shoots as hossistary)	Filing Date	January 6, 2000
	First Named Inventor	Gary A. Bannon

Attorney Docket Number

Group Art Unit Examiner Name

6

		OTHER ART NON PATENT LITERATURE DOCUMENTS	T ²		
Examiner's Cite No.1		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(c), publisher, city and/or country where published	- 1-		
		KAMINOGAWA, "Food allergy, oral tolerance and immunomodulation—their molecular and cellular mechanisms," <i>Biosci. Biotech, Biochem.</i> 60: 1749-1756 (1996).			
		MCKEON, "IgG and IgE Antibodies Against Antigens of the Cat Flea, Ctenocephalides Felis Felis in Sera of Allergic and Non-allergic Dogs," Int. J. Parasitology 24(2):259-263 (1994).			
		MONERET-VAUTRIN, "Modifications of allergenicity linked to food technologies," Allerg Immunol 30(1): 9-13 (1998).			
		NELSON et al., "Treatment of anaphylactic sensitivity to peanuts by immunotherapy with injections of aqueous peanut extract," <i>J. Allergy Clin. Immunol.</i> 99: 744-751 (1997).			
		NORMAN, et al., "Multicenter study of several doses of ALLER-VAX® Cat peptides in the treatment of cat allergy," <i>Journal of Allergy and Clinical Immunology</i> 99: S127 (1997).			
		OPPENHEIMER et al. "Treatment of peanut allergy with rush immunotherapy," J Allergy Clin Immunol. 90: 256-62 (1992).			
		PUCHEU-HASTON, "Allergenic cross-reactivities in flea-reactive canine serum samples," AJVR 57(7): 1000-1005 (1996).			
		RAZ, et al., "Intradermal gene immunization: the possible role of DNA uptake in the induction of cellular immunity to viruses," Proc Nat Acad Sci USA 91: 9519-9523 (1994).			
	-	ROLFSEN, "Detection of specific IgE antibodies towards cat flea (Ctenocephalides felis felis) in patients with suspected cat allergy," Allergy 42: 177-181 (1987).			
$\overline{}$		ROONEY, et al., "Antiparallel, intramolecular triplex DNA stimulates homologous recombination in human cells," <i>Proc. Natl. Acad. Sci. USA</i> 92: 2141-2144 (1995).			

Examiner's Signature	DR. N.	Har	Date Considered	6/12/01
		/ - 		

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant to place a check mark here if English language Translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid DMB control number

Substitute for form 1449A/PTO			19A/PTO	Complete if Known		
	INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	Divisional of 09/141,220		
İ	,		••	Filing Date	January 6, 2000	
				First Named Inventor	Gary A. Bannon	
				Group Art Unit	1644	
				Examiner Name		
Sheet	6	of	6	Attorney Docket Number	HS 102 DIV	

		OTHER ART NON PATENT LITERATURE DOCUMENTS	T ²
Examiner's Cit Initials* No		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, cataiog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	
PNH		SAMPSON et al., "Fatal and near-fatal anaphylactic reactions to food in children and adolescents," N Engl J Med 327: 380-384 (1992).	
1		SAMPSON, "Food allergy and the role of immunotherapy," <i>J Allergy Clin. Immun</i> . 90:151-52 (1992).	
		SAMPSON,, et al. "Mechanisms of food allergy," Annu. Rev. Nutr. 16: 161-77 (1996).	
		SCHEMMER, "Efficacy of Alum-Precipitated Flea Antigen for Hyposensitization of Flea-Allergic Dogs," Seminars in Veterinary Meicine and Surgery (Small Animal) 2(3): 195-198 (1987).	
		SHANTI, et al. "Identification of tropomyosin as the major shrimp allergen and characterization of its IgE-binding epitopes," J. Immunol. 151, 5354-5363 (1993).	
		SHIN, et al., "Biochemical and structural analysis of the IgE binding sites on Ara h1, an abundant and highly allergenic peanut protein," <i>J Biol Chem.</i> 273(22):13753-9 (1998).	\
	٥	STANLEY, et al. "Identification and mutational analysis of the immunodominant IgE binding epitopes of the major peanut allergen Ara h 2," Arch. Biochem. Biophys. 342, 244-253 (1997).	
		STANLEY, et al., "Peanut hypersensitivity. IgE binding characteristics of a recombinant Ara h I protein," Adv Exp Med Biol. 409: 213-6 (1996).	
		TWARDOSZ, "Molecular Characterization, Expression in Escherichia coli, and Epitope Analysis of a Two EF-Hand Calcium- Binding Birch Pollen Allergen, Bet v 4," <i>Biochem. Biophys. Res. Commun.</i> 239: 197-204 (1997).	
\downarrow		VRTALA, "High Level Expression in Escherichia coli and Purification of Recombinant Plant Profilins: Comparison of IgE Binding Capacity and Allergenic Activity," <i>Biochem. Biophys. Res. Comm.</i> 226: 42-50 (1996).	

				_
Examiner's	10 151	Date	11.5	
Signature	Dhy N. Her	Considered	6/12/01	
				_

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you require to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

ı

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant to place a check mark here if English language Translation is attached.